Model 1070
Stereo Console Amplifier

Handbook of Instructions

marantz®

We Sound Better

Model 1070
Stereo Console Amplifier

marantz®

MARANTZ CO., INC. · P.O. BOX 99 · SUN VALLEY, CALIFORNIA · 91352
A WHOLLY-OWNED SUBSIDIARY OF SUPERSCOPE INC., SUN VALLEY, CALIFORNIA 91352

marantz®

We sound better.

WARRANTY

Marantz Company, Inc., proudly warrants your Marantz product to be free of manufacturing defects in material and workmanship as follows:

From date of purchase

Electronic Components and Receivers	PARTS	– 3 years
	LABOR	– 3 years
Headphones	PARTS	– 3 years
	LABOR	– 3 years
4-Channel Remote Control	PARTS	– 3 years
	LABOR	– 3 years
Plug-in Matrix Decoders.	PARTS	– 3 years
	LABOR	– 3 years
Speakers and Cabinets	PARTS	– 5 years
	LABOR	– 5 years

TO VALIDATE YOUR WARRANTY, YOU MUST FILL OUT AND MAIL THE WARRANTY REGISTRATION CARD TO MARANTZ COMPANY, INC., P.O. BOX 99, SUN VALLEY, CALIFORNIA 91352, WITHIN TEN DAYS FOLLOWING THE DATE OF PURCHASE.

For Warranty repair, send this product to Marantz Company, Inc., 8150 Vineland Avenue, Sun Valley, California 91352, or to an AUTHORIZED Marantz Service Station. All shipping charges must be prepaid, Marantz will pay return shipping charges to any designated point within the United States.

This Warranty is void if the serial number has been altered or removed; if the product is modified or repaired in any manner which Marantz believes may affect the reliability of the product; if the product is not operated in accordance with the instruction manual.

Marantz shall have no liability whatsoever for consequential damages. The sole responsibility of Marantz Company, Inc., under this Warranty shall be limited to the repair of the product, or repalcement thereof, in the sole discretion of Marantz Company, Inc.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PRECLUDES A DISCLAIMER OF WARRANTY, THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS WITH RESPECT TO THIS PRODUCT, NOR ARE THERE ANY OTHER WARRANTIES WHICH EXTENT BEYOND THE PROVISIONS OF THIS WARRANTY.

8150 Vineland Avenue, Sun Valley, California 91352

PURCHASER'S RECORD ▶

REGISTRATION FOR MARANTZ 3-YEAR GOLDEN WARRANTY

Model purchased ________________________

Date of Purchase ________________________

Place of purchase ________________________

Address __________ City __________ State __________

Serial Number ________________________

The above information becomes your permanent record of a valuable purchase. It should be promptly filled in at the same time that you fill in and mail the warranty registration reply card to Marantz. This information provides a valuable insurance record and must also be referred to should you have any correspondence with Marantz.

AC Line Operation

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FOREWORD

To obtain maximum performance and enjoyment from the Model 1070 Stereo Console, please study these instructions carefully. Installing and operating the Model 1070 is not complicated, but the flexibility provided by its numerous operating features merits your becoming familiar with its controls and connections. Our recommended procedures will assure you of securing the superb performance for which the Model 1070 was designed.

For convenience, this manual is divided into two parts. The first part covers installation and operation in a simple, nontechnical manner. The second part provides a more detailed description of the features of the Model 1070. Detailed technical specifications and functional explanations are included in this part.

For quick identification of the many controls, connection facilities, and adjustments on the Model 1070 Stereo Console, all references to them in this manual are printed in **BOLDFACE TYPE.**

GENERAL DESCRIPTION

The Marantz Model 1070 Stereo Console is an all solid state integrated amplifier incorporating the advanced innovative design and unparalleled technology that have made Marantz famous in the audio component industry. The Model 1070 features a low distortion preamplifier and power amplifier, detented slide tone and balance controls, provisions for two pairs of speakers for ambience, and provisions for two tape decks for making tape to tape copies.

AFTER UNPACKING

It will be to your advantage to save all the packing materials, carton, fillers, cushioning, etc. They will prove valuable in preventing damage should it become necessary to transport or ship the Model 1070. Be careful that you do not inadvertently throw away or lose the parts packed with the unit.

Please inspect this unit carefully for any signs of damage incurred in transit. It has undergone very strict quality control inspections and tests prior to packing, and it left the factory unmarred and in perfect operating condition. If the unit was shipped directly to you and you discover damage, notify the transportation company without delay. Only you, the consignee, may institute a claim against the carrier for damage during shipment. However, the Marantz Company will cooperate fully with you in such an event. Save the carton as evidence of damage for their inspection. If you received the unit directly from a Marantz dealer, return it to him for adjustment.

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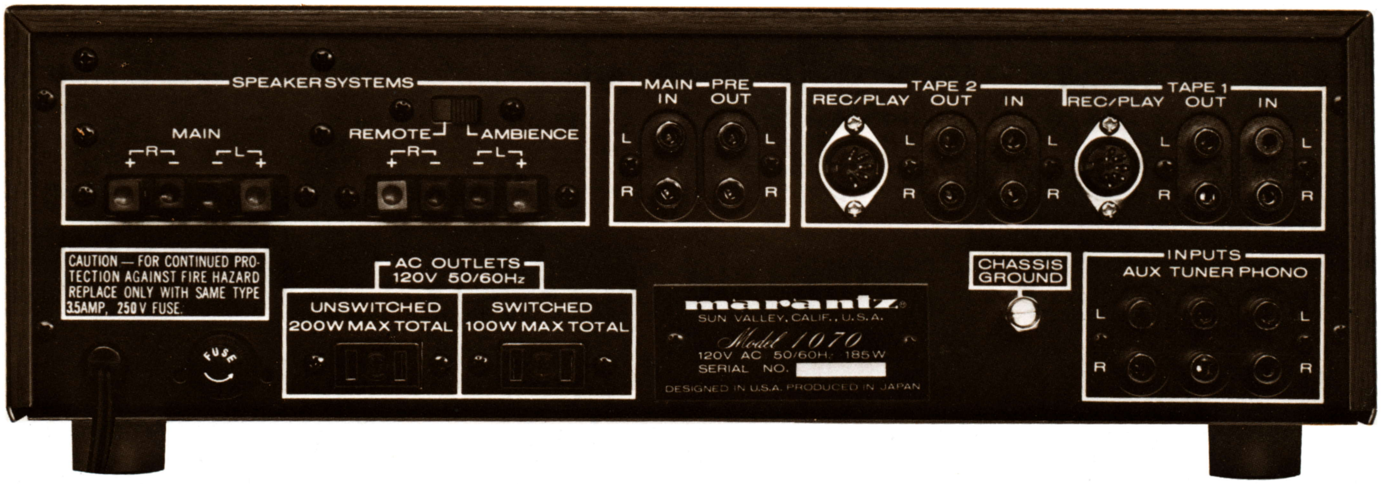

SPEAKER SYSTEMS
MAIN
REMOTE
AMBIENCE
MAIN IN
PRE OUT
TAPE 2
REC/PLAY
OUT
IN
TAPE 1
CAUTION — FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACE ONLY WITH SAME TYPE 3.5AMP, 250 V FUSE.
FUSE
AC OUTLETS 120V 50/60Hz
UNSWITCHED 200W MAX TOTAL
SWITCHED 100W MAX TOTAL
marantz
SUN VALLEY, CALIF., U.S.A.
Model 1070
120V AC 50/60Hz 185W
SERIAL NO.
DESIGNED IN U.S.A. PRODUCED IN JAPAN
CHASSIS GROUND
INPUTS
AUX TUNER PHONO

Figure 1. Rear Panel Connection Facilities

PREPARATION FOR USE

REAR PANEL SIGNAL CONNECTIONS

Figure 1 shows the location of the input and output jacks on the rear panel. These are for "permanent" connections. Use of the front panel controls and jacks will be discussed later. All connections to the rear panel should be made with the power to the entire system turned off. All signal connections should be made with shielded audio cables. It is suggested that you connect one cable at a time between the Model 1070 and the other components of your system. This is the safest way to avoid confusing signal sources and destinations.

SPEAKER CONNECTIONS

The **SPEAKER SYSTEMS** terminals on the left side of the rear panel can accommodate two speaker systems, each speaker having a rated impedance of 4 to 16 ohms. The **MAIN** terminals are provided for the main speaker system, the **REMOTE/AMBIENCE** terminals are provided for connecting a second pair of speakers, and the switch above the terminals selects the type of signal that is provided to the second pair of speakers. When it is in the **REMOTE** position, both pairs of speakers receive identical stereo programs. When in the **AMBIENCE** position, the second pair of speakers may be used as rear speakers for simulated four channel operation or enhanced stereo performance. Some suggested methods of speaker placement are shown in Figure 3.

To connect the speakers to the amplifier, use ordinary #18 gauge two conductor lamp cord. For distances longer than 30 feet, use #16 gauge wire or heavier.

SPEAKER PHASING

To assure the best stereo separation and frequency response, the speakers must be properly phased. The positive terminal on each speaker should be connected to its respective (+) terminal on the Model 1070, and the negative or "common" terminal should be connected to its respective (–) terminal. To verify that a pair of speakers are correctly phased, perform the following test:

1. Complete the necessary signal connections so that program material may be played through the speakers.
2. Place the speakers in the center of the room.
3. Set the **MODE** switch to **MONO L + R,** and play a record (or radio or tape) with strong bass tones at a low volume level. Center the BALANCE control.
4. Position the speakers about six inches apart, face-to-face. Listen, particularly to the apparent loudness of the bass tones.
5. Next, turn off all power, but do not disturb the VOLUME or BALANCE settings. Reverse the connections on the right speaker only. Turn on the power and listen again. If the bass tones now seem louder than in (3), you have corrected the phasing between the speakers. If the bass notes now sound softer, turn off the power and re-connect the speakers as they had been originally.
6. If an additional pair of speakers is used along with the main speaker system, check phasing between the remote speakers and the main speakers. Use the **BALANCE** control to play only two speakers at once, and invert the wiring on the remote speakers as necessary. Do

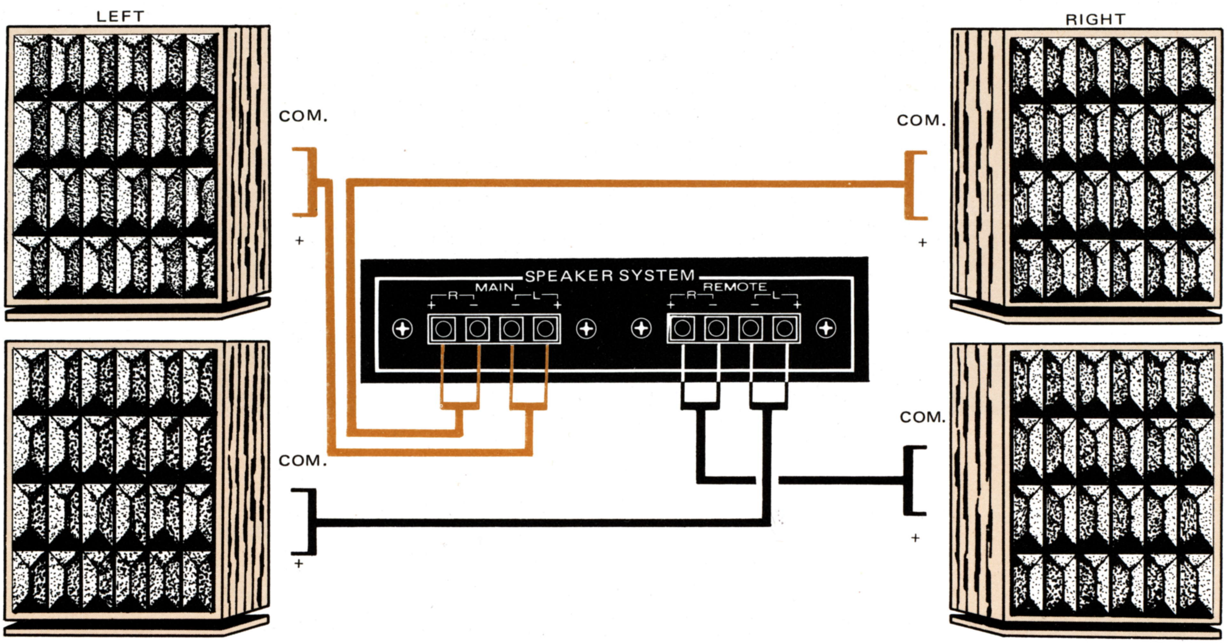


Figure 2. Speaker System Connections

not change the connections on the main speaker system.

7. Once having phased all speakers, you need not repeat this procedure in the future if you now mark the speaker connections and/or cables. Any method of coding is satisfactory, provided it enables you, in the future, to duplicate your now-correct hookup between speakers and amplifier.

Be careful when connecting the Model 1070 to a speaker which contains a built-in power supply, such as an electrostatic speaker. The "common" speaker connection terminal on such a device may be capacitively coupled to ground through its own power supply. To protect the Model 1070 from distortion and possible overload, ensure that the (—) terminals of the Model 1070 are connected to the "common" terminals of the speaker system.

CAUTION: Never directly connect the speaker terminals of one channel in parallel with those of any other. **ANY RESULTING DAMAGE IS NOT COVERED UNDER WARRANTY.**

NOTE: Do not use 4 ohm speakers if main and remote speakers are to be used simultaneously. Use 8 or 16 ohm speakers only.

TAPE 1 AND TAPE 2 JACKS

The Model 1070 can accommodate two tape recorders. The group of jacks for each tape recorder is labelled **IN**, **OUT**, and **REC/PLAY.** The terms **IN** and **OUT** refer to the input and output of the Model 1070. Therefore, the **IN** jacks on the Model 1070 accept signals from the line outputs of each tape recorder; the **OUT** jacks feed signal to the tape recorder's line inputs (see Figure 5).

The **REC/PLAY** jacks are **DIN**-type recorder jacks and permit the use of European five wire recorder cables to connect a similarly equipped tape recorder. These jacks duplicate the function of the **TAPE 1** and **TAPE 2 IN** and **OUT** jacks, respectively.

AUX INPUT JACKS

These jacks are provided for connecting miscellaneous high level signal sources such as additional tuners or receivers, tape players, phonographs that provide an **RIAA** equalized high level output, etc.

TUNER INPUT JACKS

These jacks can be used for connecting the line output of a stereo or monophonic tuner to the Model 1070.

For monophonic AM or FM tuners, proceed as follows:

> Connect a pair of audio cables between the tuner's right and left output jacks and the Model 1070's right and left **TUNER** input jacks. Set the front panel **SELECTOR** switch to the **TUNER** position.

For stereo (Multiplex) FM tuner reception, proceed as follows:

Connect one cable to either left or right **TUNER** input jack. Set the front panel **SELECTOR** switch to the **TUNER** position and place the **MODE** switch in the **MONO** position or either **L** or **R** position.

PHONO INPUT JACKS

These jacks are for use with standard phono cartridges and have a 47,000 ohm input impedance.

PRE OUT AND MAIN IN JACKS

The **PRE OUT** jacks deliver the output of the Model 1070 preamplifier circuits to the rear panel. The **MAIN IN** jacks are the input terminals of the power amplifier section of the Model 1070.

The **PRE OUT** and **MAIN IN** jacks are bridged internally by special contacts within the jack assembly. When you wish to use such equipment as a graphic equalizer, compressor/limiter, or expander, you may connect these instruments to your Model 1070 with appropriate lengths of shielded audio cables. When the external equipment is connected, the insertion of its **RCA** phono plugs in to the **PRE OUT** and **MAIN IN** jacks automatically breaks the internal connections to prevent the external equipment from being bypassed.

CHASSIS GROUND BINDING POST

If a hum is heard when playing records, this is an indication that the record player or its connections are inadequately grounded or shielded. Connect a separate ground wire from the turntable or record changer frame to the **CHASSIS GROUND** binding post on the Model 1070. If phono hum persists, consult the instruction booklet for your turntable and/or cartridge.

CONVENIENCE OUTLETS

Two AC outlets on the rear panel are provided for powering the associated components of your system, such as power amplifiers, tuners, tape recorders, record players, etc. The switched outlet is controlled by the front panel POWER switch.

The **UNSWITCHED** outlet is unaffected by the **POWER** switch. This outlet is for powering a turntable or record changer that has its own on-off switch.

OPERATION

SIMPLIFIED OPERATING PROCEDURES

When operating the Model 1070 Stereo Console for the first time, follow these simple directions, referring to Figure 5. Later on, you can take full advantage of the instrument's versatility by learning to use the remaining controls and adjustments.

Step 1. Turn the **VOLUME** control all the way to the left (fully counterclockwise), and set the **BALANCE** control to mid-position.

Step 2. Set the **MODE** switch to the **STEREO** position.

Step 3. Set the **TAPE MONITOR** switch to the **SOURCE** position.

Step 4. Set the **TREBLE, MID,** and **BASS** controls to the center position.

Step 5. Depress the **POWER** switch. The pilot light marked **POWER** above the **VOLUME** control on the front panel will glow.

Step 6. Select the desired program source by turning the **SELECTOR** switch to the appropriate position.

Step 7. Adjust the **VOLUME** control to a suitable level.

VOLUME CONTROL

The **VOLUME** control adjusts the level of both output channels simultaneously, while maintaining stereo balance within 3 dB at all normal settings. It does not affect the **TAPE 1 OUT** and **TAPE 2 OUT** jacks.

BALANCE CONTROL

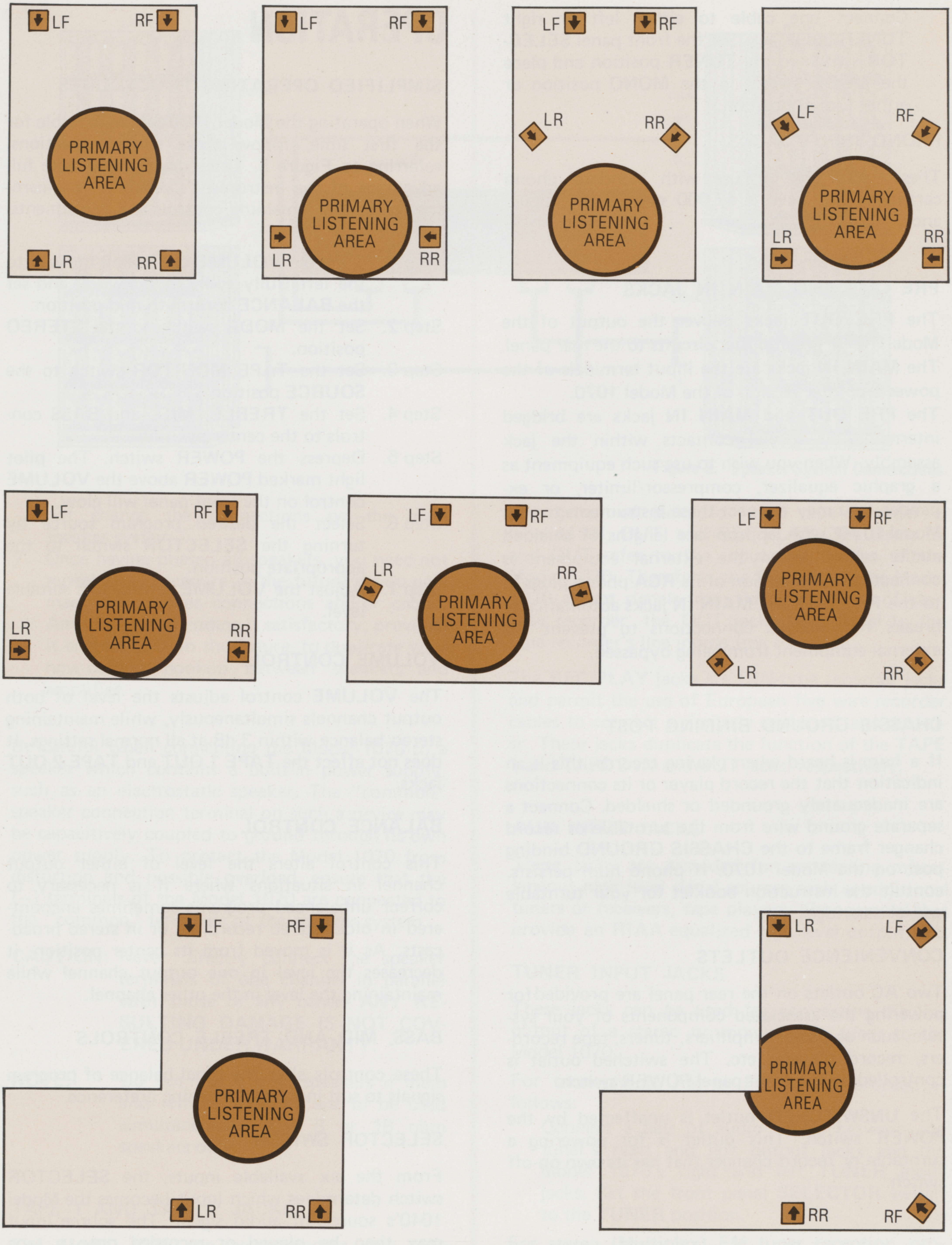
This control alters the level of either output channel in situations where it is necessary to correct unbalanced programs sometimes encountered in older stereo recordings or in stereo broadcasts. As it is moved from its center position, it decreases the level in one output channel while maintaining the level in the other channel.

BASS, MID AND TREBLE CONTROLS

These controls alter the tonal balance of program signals to suit individual listening preference.

SELECTOR SWITCH

From the six available inputs, the **SELECTOR** switch determines which input becomes the Model 1040's source of audio signal. The source input may then be played or recorded onto a tape recorder.


LF
RF
PRIMARY LISTENING AREA
LR
RR
LF
RF
PRIMARY LISTENING AREA
LR
RR
LF
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PRIMARY LISTENING AREA
LF
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PRIMARY LISTENING AREA
RR
RF

Figure 3. Speaker Placement for Ambience

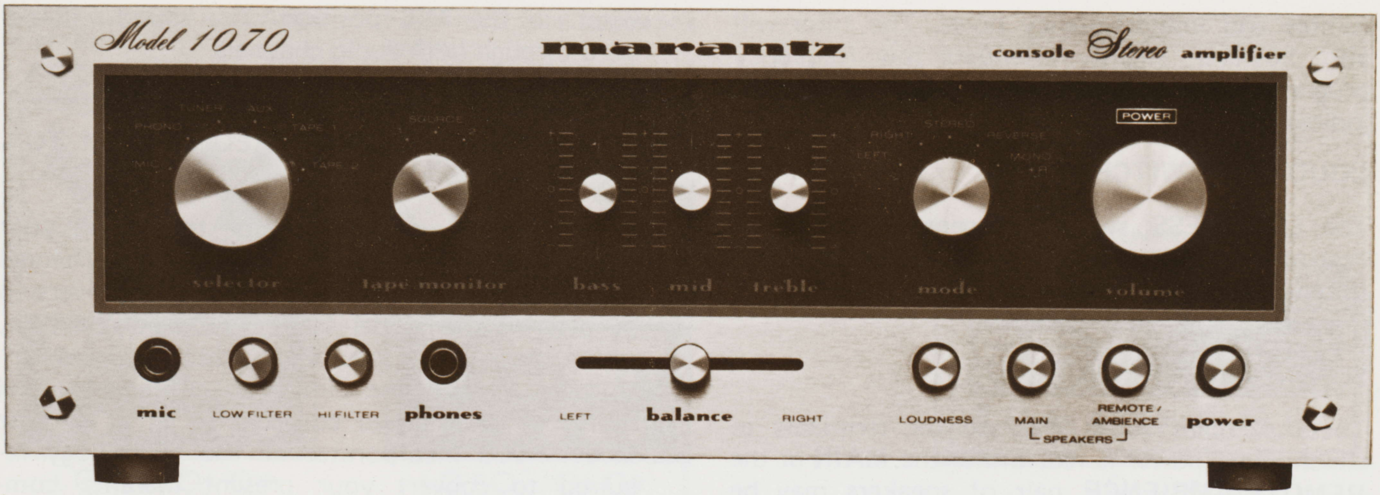

Figure 4. Front Panel Controls and Jacks

To make a dub (tape copy) from tape 1 to tape 2, place the **SELECTOR** switch in the **TAPE 1** position. The signal from tape 1 is then fed to the input of **TAPE 2.** The **TAPE 1 OUT** jacks are muted to prevent feedback oscillations.

Similarly, to make a dub from tape 2 to tape 1, place the **SELECTOR** in the **TAPE 2** position. The signal is fed to tape 1, and the **TAPE 2 OUT** jacks are muted. (See Figure 5.)

TAPE MONITOR SWITCH

When the **TAPE MONITOR** switch is placed in the 1 or 2 position, the tape recorder connected to the corresponding **TAPE IN** jacks can be monitored.

Notice that on the **SELECTOR** switch either **TAPE 1** or **TAPE 2** can be selected as a source input, and that the **TAPE MONITOR** switch functions independently of the **SELECTOR** switch. Thus, either tape recorder can be independently monitored regardless of which is chosen as the source to record on to the other.

For example, if the **SELECTOR** were set to **TAPE 1,** the output of **TAPE 1** would become the source material. On the **TAPE MONITOR** switch, tape 1's output would appear at **SOURCE** as well as at **TAPE 1.** At **TAPE 2** would appear the output from tape 2.

MODE SWITCH

This switch is a five position rotary switch that provides the following signal functions:

LEFT:	The **LEFT** channel signal is routed to drive both right and left audio channel speakers.
RIGHT:	The **RIGHT** channel signal is routed to drive both right and left audio channel speakers.
STEREO:	The **LEFT** channel signal is routed to drive the left audio channel speaker, and the **RIGHT** channel is routed to drive the right audio channel speaker.
REVERSE:	The **LEFT** and **RIGHT** channel signals are reversely routed to drive the **RIGHT** and **LEFT** audio channel speakers, respectively.
MONO L+R:	The **LEFT** and **RIGHT** channel signals are mixed and routed to drive both right and left audio channel speakers.

When playing a single channel source such as **TV** or **AM** radio, set the switch to either **LEFT** or **RIGHT** position or to **MONO** so that the single channel source can be heard through both speakers.

HI FILTER SWITCH

This switch can be used to reduce high frequency noise such as that associated with the playing of poorly recorded tapes or worn disc recordings. If an **AM** tuner is being used with the Model 1070, this switch will help to suppress considerably the high pitched "whistle" caused by adjacent **AM** channel interference. This filter will also, along with high frequency noise, slightly attenuate high frequency program material, and should therefore be used judiciously.

LOW FILTER SWITCH

The LOW FILTER switch activates a low frequency filter that can be used to reduce turntable rumble and low frequency noise. The filter will also, however, slightly attenuate low frequency program material, and should therefore be used judiciously.

LOUDNESS SWITCH

The **LOUDNESS** switch compensates for human hearing characteristics by boosting the bass and treble response at low volume levels to achieve a more pleasing tonal balance.

SPEAKER SWITCHES

These switches select the speaker terminals to which audio power is fed. Either the **MAIN** or the **REMOTE/AMBIENCE** pair of speakers may be selected individually, or both speaker systems may be selected simultaneously. When both switches are set in normal "out" position, all speaker terminals are internally disconnected from the power amplifier section of the Model 1070. However, the **PHONES** jack is not affected by these switches.

For simulated four channel operation, depress both speaker pushswitches and set the **REMOTE/ AMBIENCE** switch on the rear panel to the **AMBIENCE** position.

NOTE: Always reduce the **VOLUME** to minimum level whenever switching the speakers.

POWER SWITCH

This switch applies **AC** power to the Model 1070 and to the **SWITCHED** convenience outlet when depressed. When depressed again, AC power is removed.

PHONES JACK

The **PHONES** jack is internally connected to the left and right outputs and is designed for the use of professional stereo headphones. If you wish to use two sets of headphones simultaneously, a **"Y"** connector may be utilized. High impedance phones may be connected in parallel without difficulty. However, a parallel connection of two low impedance headphones results in a 3 dB loss in volume level. A series connection would provide more power for this purpose.

MIC JACK

This jack accepts a standard 2-conductor phone plug.

When a low level microphone with an output less than 100 mV (such as a dynamic type) is connected to the MIC jack, place the **SELECTOR** switch in the **MIC** position. The sound will be heard through both audio channels.

CONVERTING YOUR STEREO SYSTEM TO 4-CHANNEL

In the future, you may decide to expand your stereo component system into a four channel sound system. Marantz simplifies this conversion by offering the Model 4000 Quadradial Adaptor, which has been specifically designed and engineered to add the dimension of four channel sound to your stereo components. The Marantz Model 4000 incorporates all the technology required to convert your present Marantz components into a four channel sound system.

Features of the Marantz Model 4000 Quadradial Adaptor:

* Accepts an external CD-4 disc demodulator
* SQ pocket for plugging in Marantz' SQA-1 and SQA-2 decoders and all future matrix decoders
* Complete provisions for accepting any four channel tape recorder
* Low and hi filters for rear channels
* Master volume control with switchable loudness compensation for all four channels
* Four channel fingertip balance controls
* Complete provisions for switching both **MAIN** and **REMOTE** four channel speaker systems
* Headphone jack for the rear channels
* Bass and treble controls for the rear channels
* Accepts Marantz' Model RC-4 remote control unit.

The Model 4000 also incorporates Marantz' exclusive **VARI-MATRIX** feature to synthesize four channel sound from any stereo source. Along with the Model 4000, all that is required is a basic amplifier and a pair of speakers. Further information can be obtained from your local Marantz dealer.

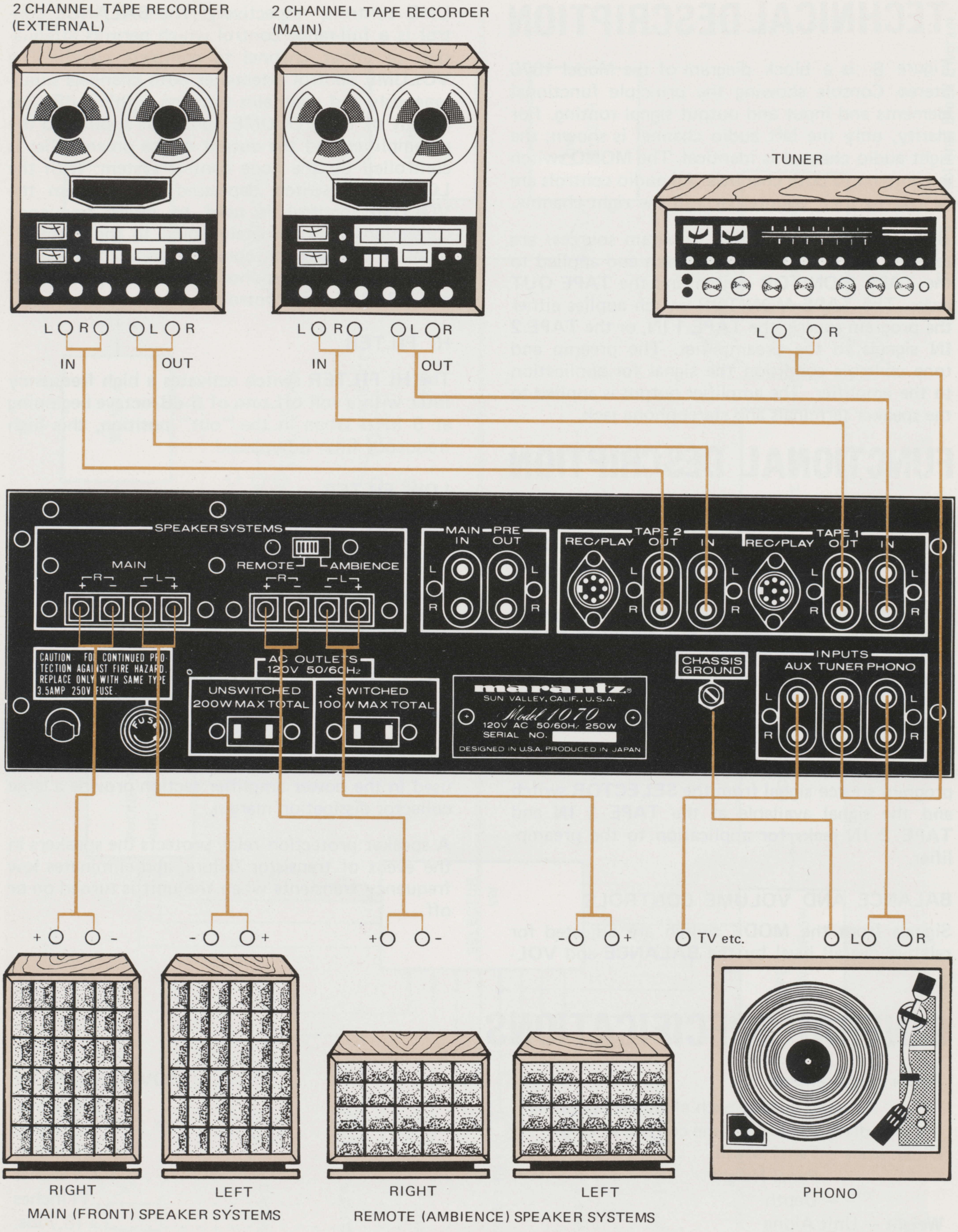
2 CHANNEL TAPE RECORDER (EXTERNAL)
2 CHANNEL TAPE RECORDER (MAIN)
TUNER
L R L R
IN OUT
L R L R
IN OUT
L R
SPEAKER SYSTEMS
MAIN
R
+ −
L
− +
REMOTE
AMBIENCE
R
+ −
L
− +
MAIN PRE
IN OUT
L R L R
TAPE 2
REC/PLAY OUT IN
TAPE 1
REC/PLAY OUT IN
L R
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD. REPLACE ONLY WITH SAME TYPE 3.5AMP 250V FUSE.
FUSE
AC OUTLETS
120V 50/60Hz
UNSWITCHED
200W MAX TOTAL
SWITCHED
100W MAX TOTAL
marantz
SUN VALLEY, CALIF., U.S.A.
Model 1070
120V AC 50/60Hz 250W
SERIAL NO.
DESIGNED IN U.S.A. PRODUCED IN JAPAN
CHASSIS GROUND
INPUTS
AUX TUNER PHONO
L R L R
+ −
− +
+ −
− +
TV etc.
L R
RIGHT
LEFT
MAIN (FRONT) SPEAKER SYSTEMS
RIGHT
LEFT
REMOTE (AMBIENCE) SPEAKER SYSTEMS
PHONO

Figure 5. Connection Diagram

TECHNICAL DESCRIPTION

Figure 8 is a block diagram of the Model 1070 Stereo Console showing the principle functional elements and input and output signal routing. For clarity, only the left audio channel is shown; the right audio channel is identical. The **MONO** switch is common to both channels. All audio controls are ganged to their counterparts in the right channel.

High and low level inputs (program sources) are selected by the **SELECTOR** switch and applied to the **TAPE MONITOR** switch and the **TAPE OUT** jacks. The **TAPE MONITOR** switch applies either the program source, the **TAPE 1 IN,** or the **TAPE 2 IN** signals to the preamplifier. The preamp and tone controls condition the signal for application to the amplifier. The amplifier output is applied to the speaker terminals and stereophone jack.

FUNCTIONAL DESCRIPTION

SELECTOR SWITCH

The six position input **SELECTOR** switch selects one of six (four high-level and two low-level) inputs for application to the **TAPE MONITOR** switch and **TAPE 1 OUT** and **TAPE 2 OUT** jacks. The low-level input **(PHONO)** is amplified by the phono pre-amplifier with the appropriate equalization before being applied to the **SELECTOR** switch.

TAPE MONITOR SWITCH

The **TAPE MONITOR** switch selects between the program source signal from the **SELECTOR** switch and the signal available at the **TAPE 1 IN** and **TAPE 2 IN** jacks for application to the preamplifier.

BALANCE AND VOLUME CONTROLS

Signals from the **MODE** switch are adjusted for relative overall level by the **BALANCE** and **VOLUME** controls, respectively. The **BALANCE** control is a full-range control which permits attenuation of either channel to complete cutoff. The **VOLUME** control attenuates both channels simultaneously and maintains tracking within 3 dB. The output of the **VOLUME** control is applied to the preamplifier and the output of the preamplifier is controlled by the tone control system. With the **LOUDNESS** switch depressed, a tap from the **VOLUME** control is used to insert frequency corrections approximately equal to the Fletcher-Munson loudness contours. The tone control amplifier's frequency response is adjusted by the **BASS** and **TREBLE** tone controls.

HI FILTER

The **HI FILTER** switch activates a high frequency filter with a roll off rate of 6 dB/octave beginning at 5 kHz. When in the "out" position, this high frequency filter is bypassed.

LOW FILTER

The **LOW FILTER** switch activates a low frequency filter with a roll off rate of 6 dB/octave beginning at 150 Hz. When it is in the "out" position, this low frequency filter is bypassed.

AMPLIFIER

The amplifier section of the Model 1070 is a direct coupled, full complementary circuit. The Model 1070 utilizes current limiting and thermal compensation circuits to provide safe, highly stable operating conditions. The silicone output devices used in the power amplifier section provide a large collector dissipation margin.

A speaker protection relay protects the speakers in the event of transistor failure, and eliminates low frequency transients when the unit is turned on or off.

GENERAL SPECIFICATIONS

Power Requirement	120V AC, 50/60 Hz
At rated output both channels operating	185 Watts
Idling power (volume control at zero)	20 Watts
Dimensions — Panel Width	14-1/8 inches
— Panel Height	4-3/4 inches
— Depth	11 inches
Weight — Unit Alone	18.7 lbs.
— Packed for Shipment	27.7 lbs.

*These specifications and exterior design may be changed for improvement without advance notice.

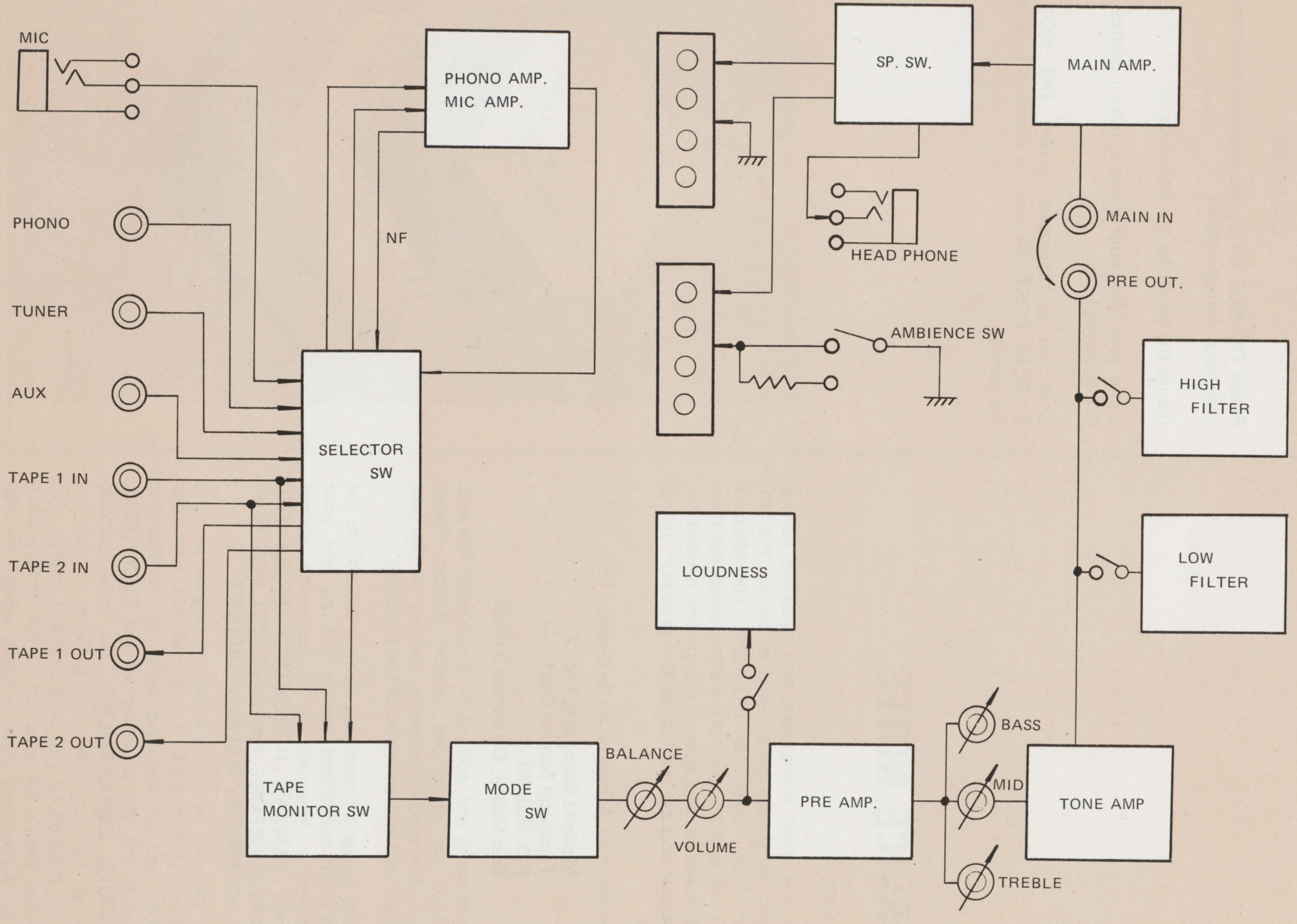
MIC
PHONO AMP.
MIC AMP.
PHONO
TUNER
AUX
TAPE 1 IN
TAPE 2 IN
TAPE 1 OUT
TAPE 2 OUT
NF
SELECTOR
SW
TAPE
MONITOR SW
MODE
SW
BALANCE
VOLUME
LOUDNESS
PRE AMP.
BASS
MID
TREBLE
TONE AMP
SP. SW.
MAIN AMP.
HEAD PHONE
MAIN IN
PRE OUT.
AMBIENCE SW
HIGH
FILTER
LOW
FILTER

Figure 6. Functional Block Diagram

SERVICE NOTES

REPAIRS

Only the most competent and qualified service technicians should be allowed to service the Marantz Model 1070 Stereo Console. The Marantz Company and its warranty station personnel have the knowledge and special equipment needed for the repair and calibration of this precision instrument.

In the event of difficulty, write directly to:

Marantz Company, Inc.
Technical Service Dept.
P.O. Box 99
Sun Valley, California 91352

for the name and address of the nearest Marantz warranty or authorized service station. Please include the model and serial number of the unit together with a description of the problem.

Should it ever be necessary to ship the unit to the factory or authorized service station, and your amplifier is mounted in its accessory walnut cabinet, **ALWAYS REMOVE IT FROM THE CABINET BEFORE PACKING. DO NOT SHIP THE ACCESSORY WALNUT CABINET.**

Pack the unit carefully, using the original packing material. If the packing material has been discarded, lost, or damaged, write to the Marantz Company (to the attention of the **TECHNICAL SERVICES DEPARTMENT**) for new packing material. Carton, fillers, and packing instructions will be shipped to you at a nominal charge. No amplifier should be returned to the factory without an Authorized Return Label which the Marantz Company will supply if the description of difficulties appears to warrant factory service.

Please pack the amplifier as illustrated.

CAUTION

Please **DO NOT** ship your amplifier mounted in its accessory walnut cabinet.

Insure the amplifier for its full value.

Make sure that your correct return address is on the shipping label.

Ship via a reputable carrier. **DO NOT USE PARCEL POST.** Be sure to obtain a receipt from the carrier.

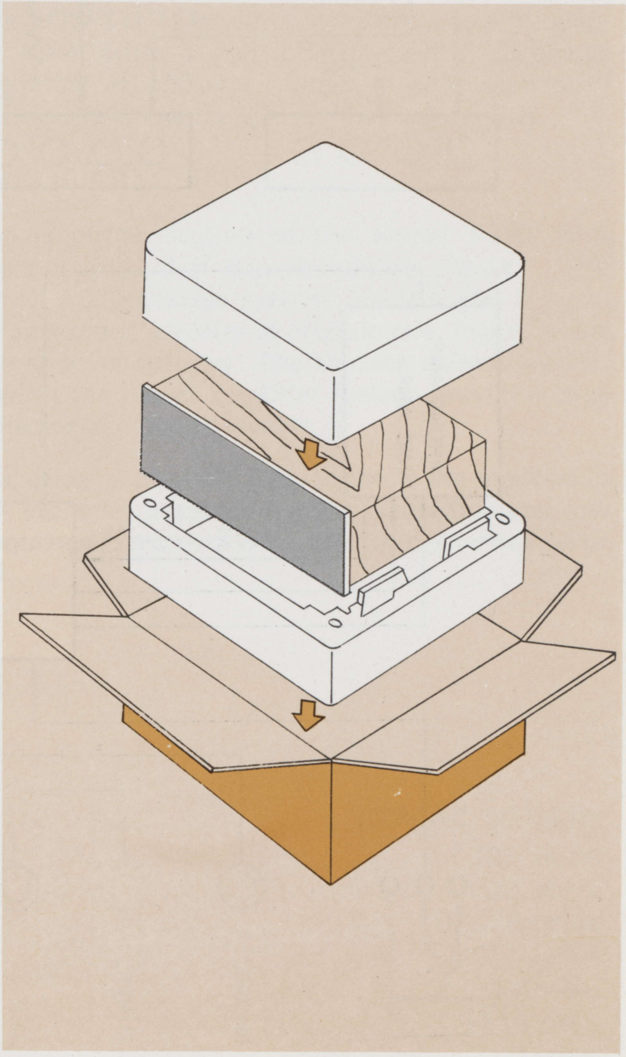

Figure 7. Packing Instructions

The Sound of Marantz
is the compelling warmth of a Stradivarius.
It is a dancing flute, a haughty bassoon
and the plaintive call of a lone French horn.
The Sound of Marantz is the sound of beauty,
and Marantz equipment is designed to bring you
the subtle joy of its delight.
Wonderful adventures in sound await you
when you discover that the Sound of Marantz
is the sound of music at its very best.

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